

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of all claims in the application.

Listing of Claims

43. Claims 43-56 (**Canceled**)

57. (**Currently Amended**) A method of determining the identification of a nucleotide at a detection position in a target sequence the genotype of an individual comprising:

- a) Providing a target sequence from said individual;
- b) providing an electrode comprising a covalently attached capture probes, wherein each capture probe has [[with]] a sequence substantially complementary to a first domain of said target sequence;
- c) providing a first label probe comprising a first base at an interrogation position and a first ETM with a first redox potential;
- d) providing a second label probe comprising a second base at an interrogation position and a second ETM with a second redox potential;
- e) forming [[a]] hybridization complexes, wherein each, independently of the others, comprises comprising said target sequence, at least one of said label probes, and said capture probe; and
- f) determining the genotype of an individual nucleotide at said detection position by detecting said ETMs.

58. **(New)** The method of Claim 57 wherein said method further comprises providing a third label probe comprising a third base at an interrogation position and a third ETM with a third redox potential.

59. **(New)** The method of Claim 58 wherein said method further comprises providing a fourth label probe comprising a fourth base at an interrogation position and a fourth ETM with a fourth redox potential.